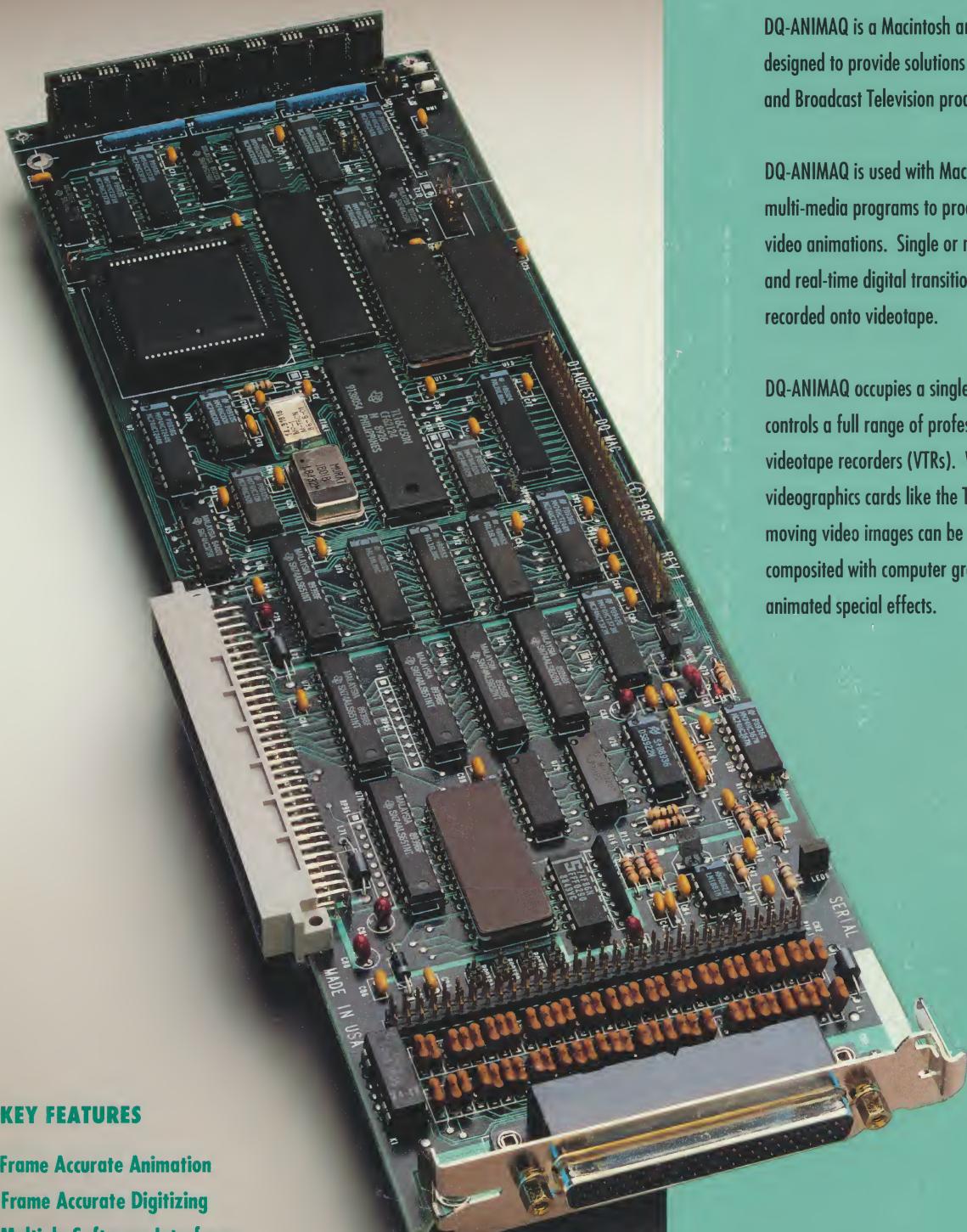# DQ-ANIMAQ™

MACINTOSH® ANIMATION CONTROLLER

DQ-ANIMAQ is a Macintosh animation controller designed to provide solutions for both Desktop Video and Broadcast Television production.

DQ-ANIMAQ is used with Macintosh paint, 3D and multi-media programs to produce frame accurate video animations. Single or multiple video frames and real-time digital transitions can be automatically recorded onto videotape.

DQ-ANIMAQ occupies a single NuBus® slot and controls a full range of professional and broadcast videotape recorders (VTRs). When used with videographics cards like the Truevision® NuVista®, moving video images can be digitized and then composited with computer graphics to create animated special effects.

KEY FEATURES

- **Frame Accurate Animation**
- **Frame Accurate Digitizing**
- **Multiple Software Interfaces**
- **Rotoscoping and Special Effects**
- **Serial and Parallel VTR Control**
- **On-Board Sync Generator**
- **SMPTE/EBU Timecode Generator**
- **Desktop and Broadcast Models**

**DESKTOP AND BROADCAST
VIDEO ANIMATION PRODUCTS**

DIAQUEST

SOFTWARE INTERFACES

ANIMAQ™

ANIMAQ is a stand alone program which provides remote control of the VTR, frame accurate digitizing and recording, as well as auto-sequencing of image files from hard disk. It is compatible with graphics programs that produce 8, 16, 24, and 32 Bit PICT, numbered PICT, PICS and Scrapbook animation files. Additional formats are also being implemented.

Video OnLine Control Panel

The Video OnLine control panel allows the user to work within popular paint and 3D graphics programs to digitize video frames and record frame accurate edits. Exact video frames can be captured, enhanced and merged with graphics and then output to tape.

MacroMind ® XObjects™

DQ-ANIMAQ includes XObjects for Macromind software which execute DQ-ANIMAQ functions making it possible to record animation scripts directly onto videotape. Hard disk storage of large image files is bypassed using this technique. XObjects can also be used to record real-time transitions on tape and control VTRs, allowing the user to play video clips interactively in multi-media presentations.

Third Party Compatibility

Software tools and source code are provided for third party integration of Diaquest programs. Companies Diaquest currently works with include: AT&T GSL, Byte by Byte™, Dynaware™, Electric Image™, Harris Video Systems, Linker Systems, MacroMind, Time Arts ® and Visual Information Development Inc™.

HostLink (Option)

HostLink connects any graphics computer to the DQ-ANIMAQ in the Macintosh platform via RS-232 communications. The Macintosh then functions as a video server under the control of the host computer to record frame accurate animation.

VIDEO INTERFACE

VTR, Digital & Laser Disc Support

The DQ-ANIMAQ works with the full range of video formats including digital disk recorders and optical laser disc recorders.

Supported **parallel** controlled VTRs, generally used for desktop applications, include professional S-VHS and industrial 3/4" U-Matic ®.

Supported **serial** controlled machines, generally used for broadcast applications, include broadcast U-Matic SP ®, Betacam SP ®, MII, Type C 1" and digital video recorders.

NTSC and PAL Formats

The DQ-ANIMAQ is available in either NTSC or PAL. The timecode generator/reader is available in NTSC or CCIR/EBU, and the sync generator is available in NTSC or PAL.

On-Board Sync Generator

The NTSC model features a professional RS-170A type sync generator, while the PAL version offers an interlaced 25Hz offset subcarrier for non-broadcast applications.

SPECIAL EFFECTS

Action Animator ™

Diaquest Action Animator software makes it possible to bring moving video clips into the computer by triggering the videographics card to sequentially capture video frames. When using Action Animator software, complex effects can be created by compositing video images with computer graphics. Sequences of digitized images can be painted, rotoscoped, matted and used as texture maps in 3D animations.

NUBUS HARDWARE

Macintosh Compatibility

The DQ-ANIMAQ is designed to work with all Mac II series machines and conforms with Apple NuBus architecture and engineering requirements.

Single NuBus Slot

The DQ-ANIMAQ occupies a single slot in either the serial only, or serial and parallel configuration.

Multi-Tasking

The DQ-ANIMAQ has an on-board microprocessor with 256K of memory. This frees the Macintosh CPU for graphics operations and will permit true multi-tasking in System 7.0, Ethernet and other applications.

DESKTOP & BROADCAST MODELS

Desktop Video

This DQ-ANIMAQ configuration is designed for desktop video applications. The single slot, two-board set supports virtually all serial and parallel VTRs. The on-board professional RS-170A type sync generator, SMPTE/EBU timecode reader/generator and field detection circuitry provide the key features for professional desktop video animation.

Broadcast Production

This DQ-ANIMAQ single board configuration is designed for broadcast and video post-production environments. It has the same software features as the Desktop configuration, but supports only the full range of serial VTRs. The Broadcast DQ-ANIMAQ has on-board field detection circuitry, and references to external master sync and a studio or VTR timecode reader/generator.